# Polystyrene Standards for Organic Solvents

## Polystyrene Calibration Kit

Technical Overview

### Introduction

Polystyrene standards are the first choice for many organic solvents, either for conventional GPC column calibration or for calibrating light scattering and viscosity detectors. Agilent's S-M2-10 calibration kit contains 0.5 g of ten different molecular weight standards.

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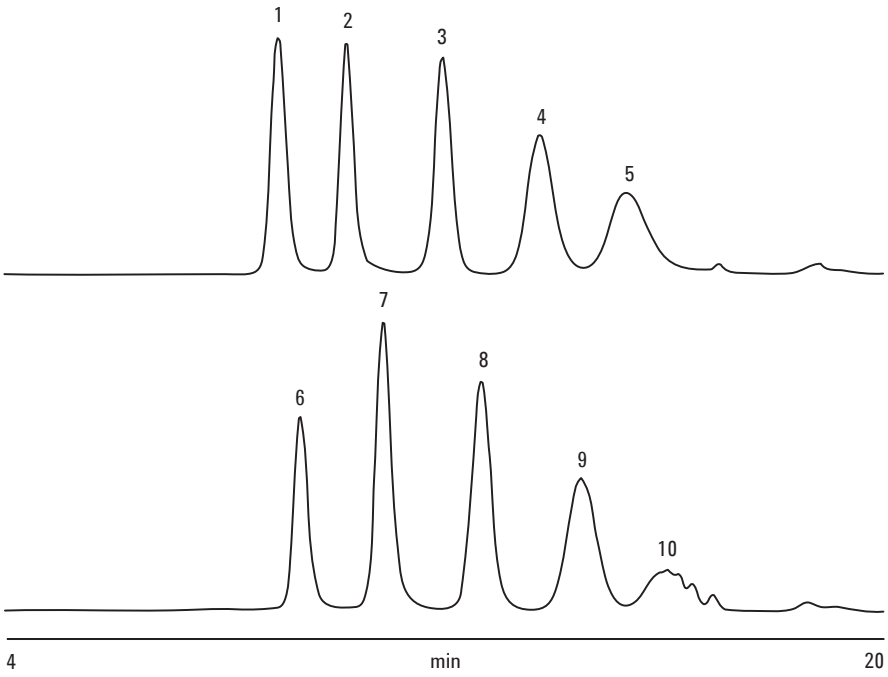
The polystyrene standards illustrated in Figure 1 are typical of the S-M2-10 medium molecular weight polystyrene standards kit that covers the linear range of the PLgel 5 µm MIXED-D column.

| | |
|---|---|
| Column: | 2 x PLgel 5 µm MIXED-D, 300 x 7.5 mm (part number PL1110-6504) |
| Eluent: | THF |
| Flow Rate: | 0.3 mL/min |
| Detection: | UV, 254 nm |




***Peak Identification (Mw)***

| | |
|---|---|
| ***1.*** | ***396,000*** |
| ***2.*** | ***96,000*** |
| ***3.*** | ***22,000*** |
| ***4.*** | ***5,050*** |
| ***5.*** | ***1,320*** |
| ***6.*** | ***220,000*** |
| ***7.*** | ***52,000*** |
| ***8.*** | ***11,600*** |
| ***9.*** | ***2,450*** |
| ***10.*** | ***580*** |

***Figure 1. Polystyrene standard Mw peaks for a typical S-M2-10 medium molecular weight polystyrene standards kit.***

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